6 x 9 DATA SHEETS.

Only data not available in engineers' handbooks desired.

These data sheets are intended to be cut into four sections, 6 x 9 inches in size, as indicated by the straight lines. They may then be bound into note-book form for convenient reference by means of staples inserted in holes punched at the points indicated. A suitable binder for these data sheets will be supplied for 25 cents. This binder has an open back and will hold an indefinite number of 6 x 9 sheets, depending on the length of staples used.

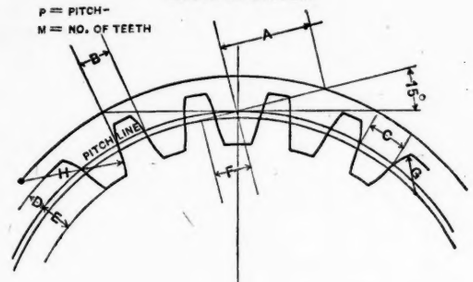
PUNCH

CREASE HERE

PUNCH

PUNCH

NYSTROM SYSTEM

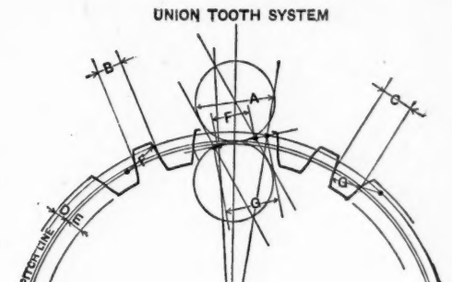


DISTANCE $A = \frac{P \times (M + 6)}{2 \times (M - 11)}$
THICKNESS OF TOOTH- B — .48 X PITCH-
WIDTH OF SPACE- C — .52 X PITCH
HEIGHT OF TOOTH- D — .31 X PITCH

DEPTH OF TOOTH- E — .39 X PITCH
DISTANCE- F = .11 X PITCH X $\sqrt[3]{\text{NO. OF TEETH}}$
RADIUS- G = B + F —
RADIUS- H = A + C —

Machinery, N.Y.

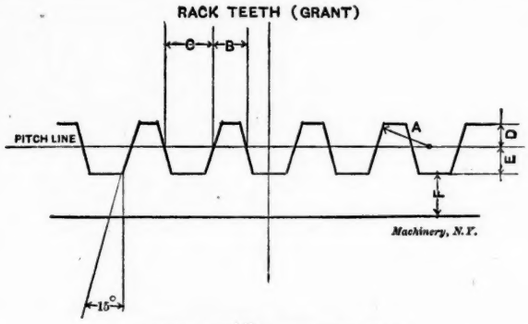
UNION TOOTH SYSTEM



GENERATING CIRCLE A = 1.25 X PITCH
THICKNESS OF TOOTH B = .48 X PITCH
WIDTH OF SPACE C = .52 X PITCH

HEIGHT OF TOOTH D = .193 X PITCH
DEPTH OF TOOTH E = .243 X PITCH

RACK TEETH (GRANT)

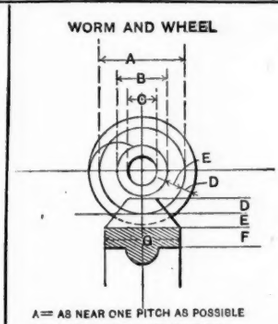


Machinery, N.Y.

RADIUS A = $\frac{2.10}{\text{DIAM. PITCH}}$ OR- .67 X CIRC. PITCH

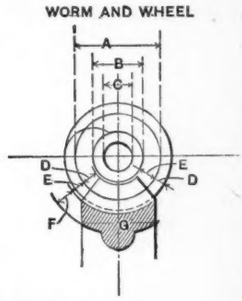
THICKNESS OF TOOTH	B .48 X PITCH
WIDTH OF SPACE	C .52 X PITCH
HEIGHT OF TOOTH	D .33 X PITCH
DEPTH OF TOOTH	E .37 X PITCH
THICKNESS	F .50 X PITCH

WORM AND WHEEL



A = AS NEAR ONE PITCH AS POSSIBLE
B = 1.875 X BORE. SEE SHEET 3, SEPTEMBER ISSUE
C = BORE
D = } SEE LOWER LEFT HAND CUT,
E = } SHEET 1 OF THIS ISSUE
F = .48 X PITCH
G = SEE SHEET 4, SEPTEMBER ISSUE

WORM AND WHEEL



A = AS NEAR ONE PITCH AS POSSIBLE
B = 1.875 X BORE.
C = BORE
D = } SEE LOWER LEFT HAND CUT,
E = } SHEET 1 OF THIS ISSUE
F = .48 X PITCH
G = SEE SHEET 4, SEPTEMBER ISSUE

Machinery, N.Y.

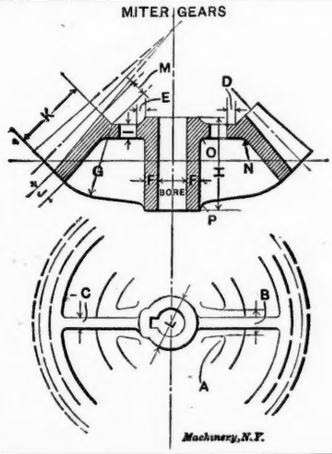
PUNCH

CREASE HERE

PUNCH

PUNCH

MITER GEARS



Machinery, N.Y.

MITER GEARS.

$A = \frac{1}{4}$ of B.
$B = 2.3 \times$ pitch.
$C = .30 \times$ pitch.
$D = .30 \times$ pitch.
$E =$ about .40 of pitch.
$F = \frac{7}{16}$ of bore. See Sheet 3, September issue.
$G =$ face K.
$H =$ face $K + \frac{1}{20}$ of pitch diameter.
$I = .48 \times$ pitch.
$J = .48 \times$ pitch.
$K =$ face. See Sheet 4, September issue.
$L = 1\frac{7}{8} \times$ bore. See Sheet 3, September issue.
$M = .40$ of pitch.
$N = .40$ of pitch.
$O = .25$ of pitch.
$P = .25$ of pitch.

For keyseat see Sheet 4, September issue.

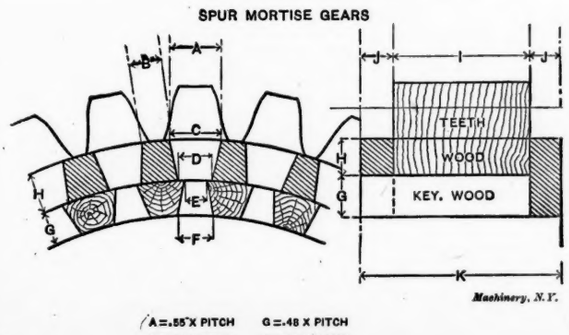
For hub see Sheet 3, September issue.

For face see Sheet 4, September issue.

Pitch is at large end of tooth.

Pitch diameter at large end of tooth.

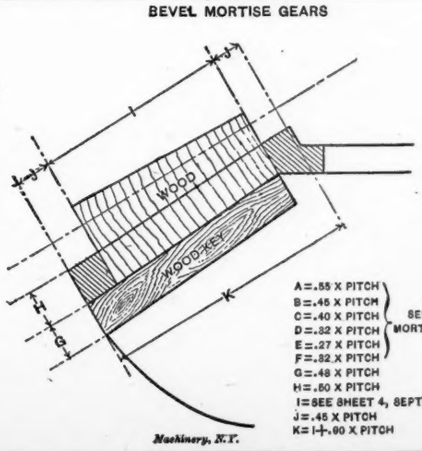
SPUR MORTISE GEARS



Machinery, N.Y.

A = .55 X PITCH	G = .48 X PITCH
B = .45 X PITCH	H = .48 X PITCH
C = .40 X PITCH	I = SEE SHEET 4, SEPT. ISSUE
D = .32 X PITCH	J = .45 X PITCH
E = .27 X PITCH	K = I + .60 X PITCH
F = .32 X PITCH	

BEVEL MORTISE GEARS



A = .55 X PITCH
B = .45 X PITCH
C = .40 X PITCH
D = .32 X PITCH
E = .27 X PITCH
F = .32 X PITCH
} SEE SPUR MORTISE GEARS
G = .48 X PITCH
H = .50 X PITCH
I = SEE SHEET 4, SEPT. ISSUE
J = .45 X PITCH
K = I + .60 X PITCH

Machinery, N.Y.